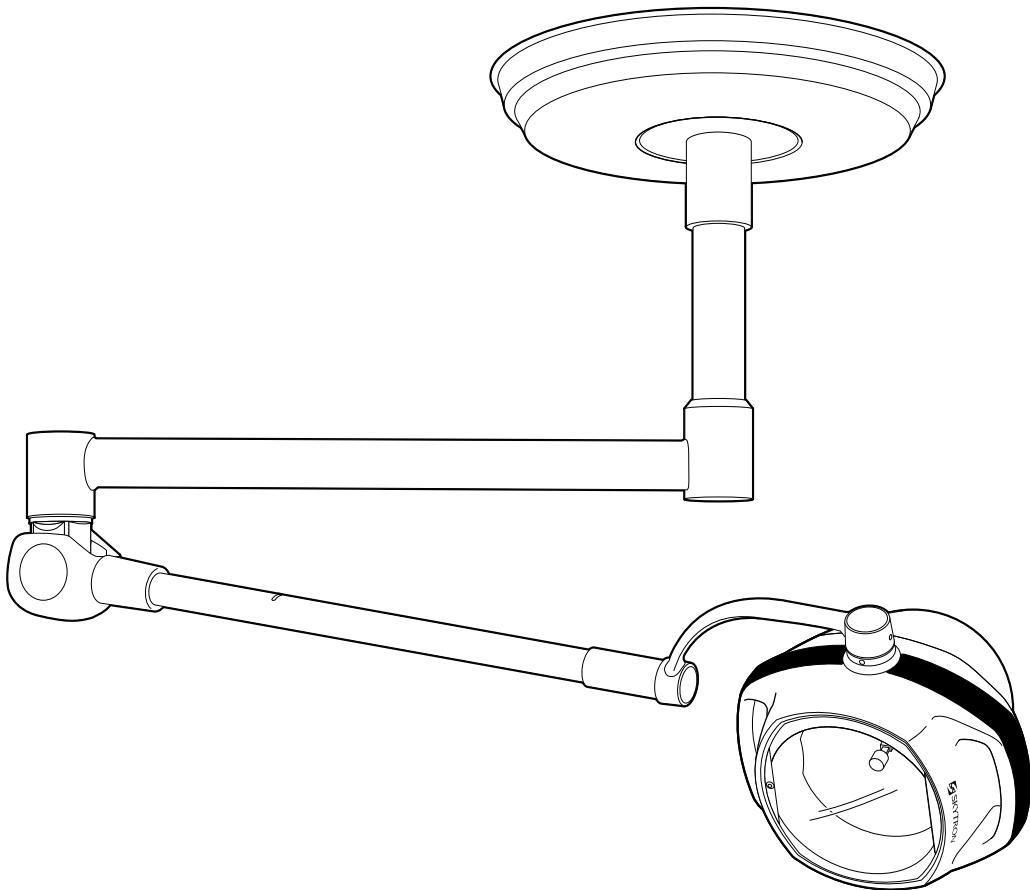


## **INSTALLATION INSTRUCTIONS**



**STELLAR ST9 SERIES  
EXAMINATION LIGHTS**

REV 4/05



---

## EQUIPMENT LABELS AND SPECIFICATIONS

---



ATTENTION, CONSULT MANUAL FOR FURTHER INSTRUCTIONS.  
INDICATES SPECIAL USER ATTENTION.



AC VOLTAGE



FUSE TYPE 3 AMP, SLOW BLOW TYPE



CLASS I DEFIBRILLATION PROOF, TYPE B EQUIPMENT- IPX4 RATED.  
INTERNAL POWERED EQUIPMENT

FOR DRY LOCATIONS

UNIT TO BE USED ONLY IN SPECIFIED ENVIRONMENTAL CONDITIONS

TEMPERATURE: 15° - 30° C (60° -85° F)

HUMIDITY: 30% - 60% RELATIVE HUMIDITY, NON CONDENSING

**ENTELA CERTIFIED**

TO UL2601-1

CAN/CSA601.1, IEC 60601-2-46



TOOLS REQUIRED:

3/8" DRIVE RATCHET

ALLEN WRENCH SET-METRIC

STEP LADDER

3/4" DEEP SOCKET, 3/8" DRIVE

#2 PHILLIPS HEAD SCREW DRIVER

UTILITY KNIFE

WIRE CUTTERS

CRIMP PLIERS

DIGITAL LEVEL

TRUE RMS MULTIMETER

12" ADJUSTABLE WRENCH

SLOTTED HEAD SCREWDRIVER 1/4"

PUNCHSET 1/8" - 3/8"

## UNCRATING

- Should any damage to the SKYTRON Examination light be noted while uncrating, further unpacking should be stopped and the container with all the wrappings held for inspection. The transportation company should be notified IMMEDIATELY so an inspector can be sent. Consult the Damaged Shipment Claim Procedure for further details.
- Personnel uncrating and installing SKYTRON Examination lights should be aware that they are delicate medical equipment and special care in handling should prevail throughout installation.

## INSTALLATION INSTRUCTIONS

### Model ST9 Ceiling Mount

1. Check the strength and stability of the mounting structure. See figure 1. The four 1/2" diameter threaded rods should be securely mounted to the ceiling for total support of the fixture. These rods are mounted in a 6-5/16" square pattern and should extend 2.25" below the finished ceiling. Refer to Mounting Structure Guidline on page 7.

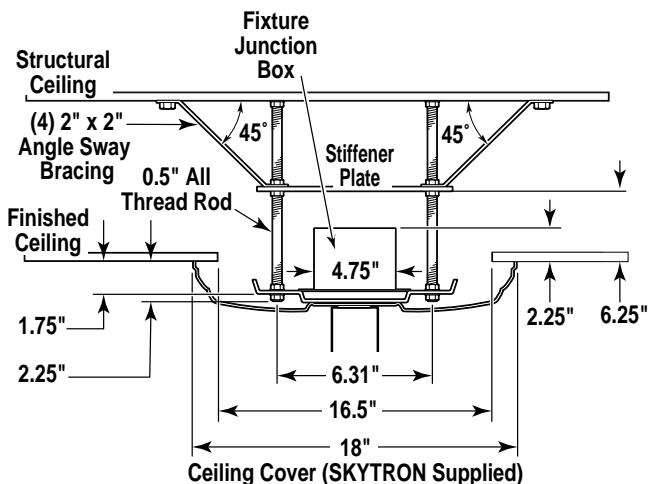


Figure 1. Mounting Structure

2. Connect the transformer wires to a 120 VAC 60 Hz power source using a DPST wall switch and ground the fixture properly. Use conduit between the transformer housing and the junction box.

3. Install the mounting hub assembly on the threaded rods between the jam nuts. The bottom of the mounting hub should be 1-3/4 " from the finished ceiling (see figure 1) for proper ceiling cover fit.

### NOTE

The mounting hub assembly must be plumb within 0.1 degree to prevent lighthead drift.

4. Install the ceiling cover. See figure 2.

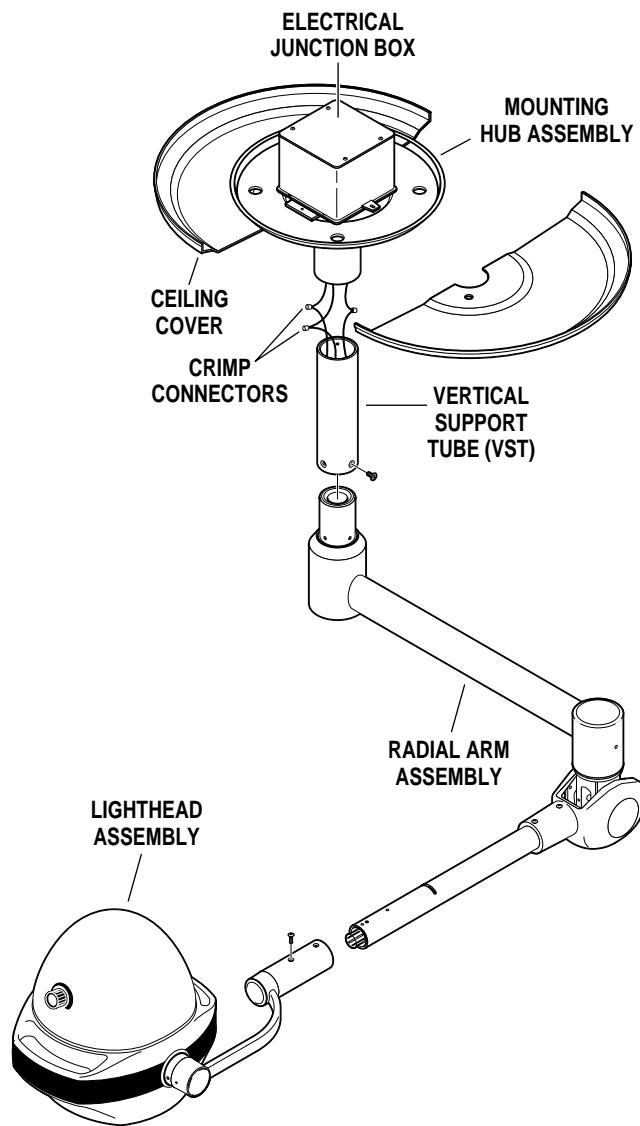


Figure 2. Model ST9 Installation Sequence

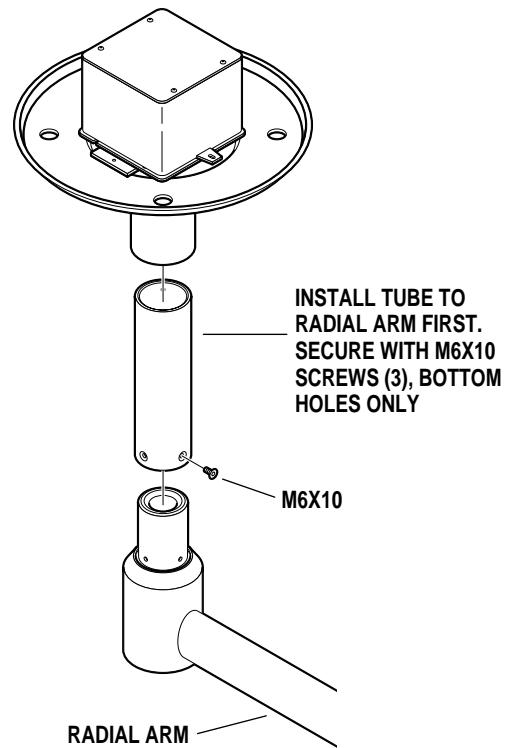
### NOTE

- All SKYTRON supplied fasteners are metric thread.
- Apply Loc-Tite to all of the VST mounting screws.

5. Thread electrical wires through and install the Vertical Support Tube onto the radial arm assembly, apply Loc-Tite to the mounting screw threads and secure with 6 screws.

### NOTE

For installations requiring a minimum length Vertical Support Tube, secure the tube with to the Radial Arm first using three M6x10 flat head screws in the bottom holes of the tube only. See figure 3. Secure the Radial Arm and tube to the Mounting Hub with (3) M6x10 flat head screws in the top holes and (3) M6x15 screws in the bottom holes.



**Figure 3. Minimum Length VST Installation**

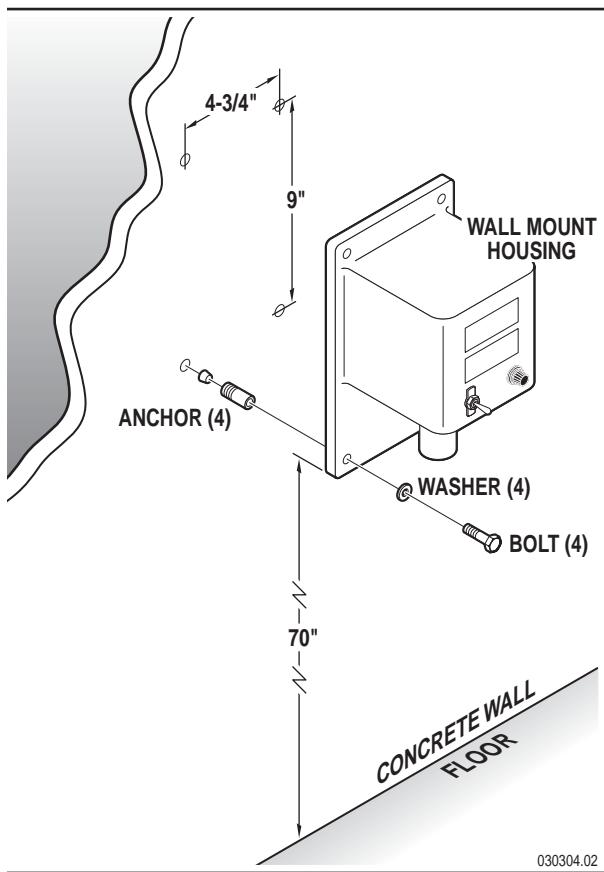
6. Trim the electrical wires and connect the wires from the Vertical Support Tube (VST) to the wires from the Mounting Hub (red to red, white to white) using crimp connectors. Install the Radial Arm Assembly, apply Loc-Tite to the mounting screw threads, observe any screw color code and secure with 6 screws.
7. Install the lighthead assembly on the lower support arm and secure with the 2 Phillips head screws.

## **Model ST9W**

1. Attach wall mount housing to concrete wall using 4 bolts, washers, and anchors as shown in figure 4. Locate housing 70" from the floor and within 4 feet of a duplex outlet for 120 VAC, 60 Hz power supply. Mark and drill 4 holes in wall, insert anchors and seat them in place. Install 4 bolts and washers and secure housing to anchors.

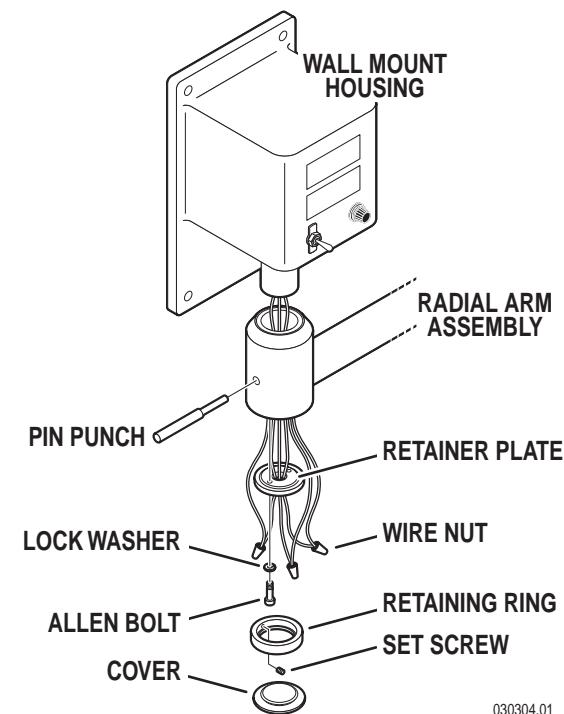
### **NOTE**

Mounting will vary depending on wall construction. Method used, however, must be capable of holding a 35 pound cantilevered fixture weight at the wall.



**Figure 4. Model ST9W Mounting**

2. Remove the allen bolts, lockwashers and the retainer plate from the mounting stub. See figure 5.



**Figure 5. ST9W Radial Arm Installation**

3. Remove cover from radial arm, loosen the set screws and remove the retaining ring.
4. Grease the mounting stub, install the radial arm and hold in position with a pin punch.
5. Thread housing electrical wires through center hole in retainer plate, install retainer plate and secure with allen bolts and lockwashers. Trim electrical wires and connect them (red to red, white to white) using wire nuts.
6. Install retaining ring and cover.

7. Install the lighthead assembly on the lower support arm and secure with the 2 Phillips head screws.

#### NOTE

Power cord twist lock plug requires NEMA L5-15R, 15A, 125V receptacle; Hubbell HBL4710 or equivalent.

8. Plug power cord into twist lock receptacle.

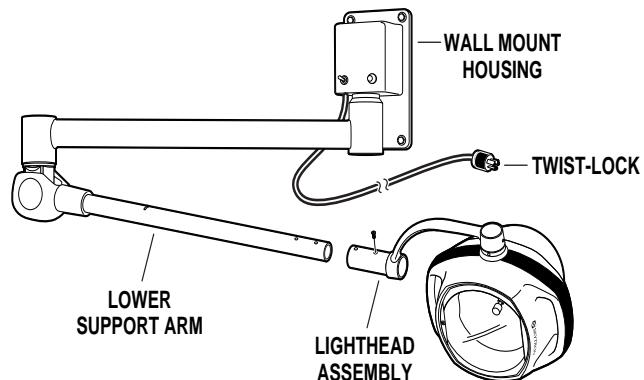


Figure 6. Model ST9W Lighthead Installation

## DAMAGED SHIPMENT CLAIM PROCEDURE

Whenever a shipment suffers damage while in the custody of the transportation company, the responsibility lies with the transportation company, and the value of the damages can be collected from the transportation company if the proper procedures are followed.

When a shipment is received in a damaged condition, and due to the appearance of the containers such as a broken crate, torn wrapping, or smashed carton the contents may have been damaged. That fact should be noted on the Bill of Lading offered by the transportation company. An example of an applicable statement would be; "Received in good order except as noted" or "Crate damaged, possibility of concealed damage." The addition of these types of statements on the shipping documents will automatically give grounds for starting a claim.

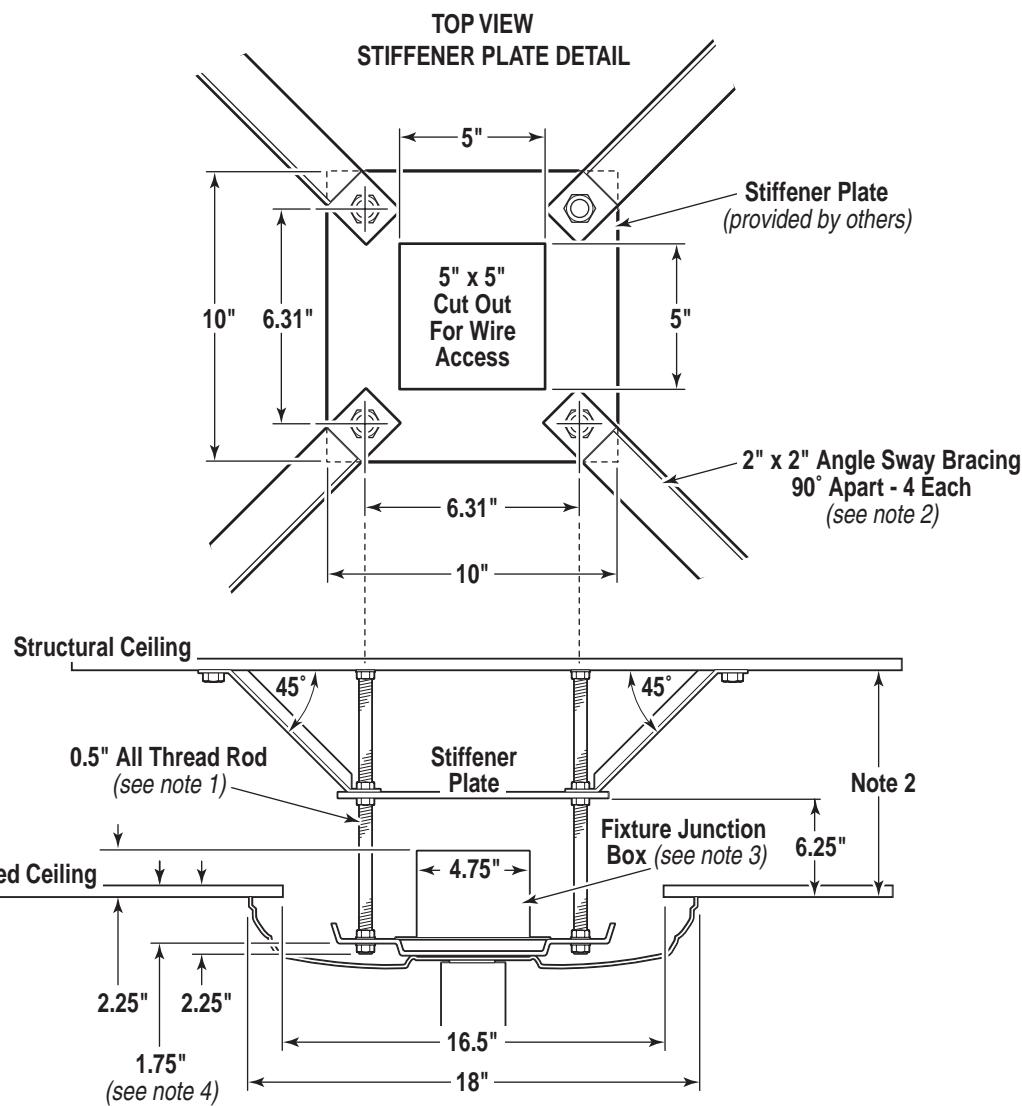
If damage cannot be identified on the exterior of the container, but is found when the container is opened, further unpacking should be stopped immediately and the container with all wrapping or packing materials should be held. The transportation company should be notified so an inspector can be sent. Failure to follow either of these two procedures may result in an inability to file a claim and collect for damage done. Returning the container to the sender without such an inspection may prevent filing a claim, because it will divide the responsibility for damage and in many cases the

transportation company will return the shipment to the sender without charge after the inspection.

The claim itself may be filed by either the shipper or consignee, but the consignee must notify the transportation company and the shipper that the damage has occurred. Remember that refusal of the shipment or failure to note the possibility of damage on the shipping documents may jeopardize the claim. Also, acceptance of a damaged shipment which has been processed properly to allow for filing a claim, will not jeopardize the position of the consignee. In any case, SKYTRON will see that damage which is not the fault of the consignee or his agents is corrected, if the transportation company does not honor the claim, as long as SKYTRON receives the full cooperation of the consignee in filing the claim.

Some of the papers needed for filing a claim are in the hands of the consignee after the shipment has been received. If SKYTRON must file a claim, we will request these papers by name from the consignee at such time as the claim is under discussion. We will require the originals of these papers and not copies.

Knowledge of the procedures outlined above and your cooperation in submitting damaged shipment claims, will help both you, our customer, and SKYTRON by assuring the integrity of our products from manufacturing to installation.



#### NOTES

1. 1/2" support rods located for total support of light, all labor and materials for mounting structure fabrication supplied by General Contractor. Fixture to be level at mounting and positioned as shown to assure proper fit of ceiling cover.
2. For support rod length over 48", two stiffener plates and two sets of Sway Bracing may be required (contact SKYTRON representative). For support rod lengths of 12" or less, sway braces may be omitted.
3. All conduit, wiring, and other electrical materials as well as installation labor for the SKYTRON surgical light to be provided by Electrical Contractor. All installations of SKYTRON surgical lights should be under the direct supervision of a SKYTRON representative. All wiring to be in accordance with local codes. 120VAC power supply to control fixture to be via DPST "On- Off" switch, not SKYTRON supplied.
4. Fixture to be level at mounting and positioned as shown to assure proper fit of ceiling cover.
5. CONTRACTOR HAS FINAL RESPONSIBILITY for the strength and stability of the Mounting Structure.

CONSULT SPECIFIC SEISMIC  
CALCULATIONS IF APPLICABLE

#### ST9 MOUNTING STRUCTURE GUIDELINE

 **SKYTRON**  
5000 36th Street S.E. Grand Rapids, MI 49512  
1.800.SKYTRON 1.616.957.0500 FAX 1.616.957.5053





